

Claim 1. (Currently amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on the human body, said treatment system comprising:

- A. a holding and supporting member constructed for being securely retained on a desired site ~~of the human body~~ being formed substantially entirely from foamed plastic material for providing controlled heat retention and airflow transmission;
- B. a heat delivery patch or exothermic pad positioned on the desired site ~~of the human body~~ in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and
- C. at least one medication applied to the desired site ~~on the human body~~, said medication being selected from the group consisting of systemic medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto, and further defined as comprising at least one selected from the group consisting of corticosteroids, chemotherapeutic agents, antihistamines, anti-parasitics, anti-oxidants, immunomodulators, ~~keratolytics~~, and anti-neoplastics;

whereby a treatment system is realized which is capable of being secured to any desired site ~~of the human body~~ to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

Claim 2. (Previously presented) The treatment system defined in Claim 1, wherein said system produces a heat gradient for improving and enhancing the penetration of systemic medications.

Claim 3. (Canceled)

Claim 4. (Previously presented) The treatment system defined in Claim 1, wherein said corticosteroids are further defined as comprising at least one selected from the group consisting of hydrocortisone, triamcinolone, betamethasone, and any other steroids commonly used in topical applications to the skin.

Claim 5. (Previously presented) The treatment system defined in Claim 1, wherein the chemotherapeutic agents comprises one or more selected from the group consisting of 5FU, Bleomycin, acytotoxic agents.

Claim 6. (Canceled)

Claim 7. (Previously presented) The treatment system defined in Claim 1, wherein the antihistamines comprises one or more selected from the group consisting of diphenhydramine and its salts.

Claims 8-9. (Canceled)

Claim 10 (Previously presented) The treatment system defined in Claim 1, wherein the anti-parasitics comprises one or more selected from the group consisting of metronidazole, permethrin, and crotamiton.

Claim 11 (Canceled)

Claim 12. (Previously presented) The treatment system defined in Claim 1, wherein the antioxidants comprises one or more selected from the group consisting of ascorbic acid and tocopherol.

Claim 13. (Previously presented) The treatment system defined in Claim 1, wherein the immunomodulators comprises one or more selected from the group consisting of imiquimod and beta glucan.

14. (Canceled)

15. (Previously presented) The treatment system defined in Claim 1, wherein the anti-neoplastics comprises one or more selected from the group consisting of cytotoxic agents and immunomodulators.

16. (Previously presented) The treatment system defined in Claim 1, wherein said system further comprises a skin enhancing agent incorporating therewith for benefitting from the heat gradient.

17. (Original) The treatment system defined in Claim 16, wherein said skin penetration enhancing agent comprises at least one selected from the group consisting of solvents, surfactants, ethers, esters, fatty acid glycerides, urea, oleates, liposomes, retinoids, and occlusive compounds.

18. (Original) The treatment system defined in Claim 1, wherein said holding member comprises a hollow, continuous, generally cylindrically shaped member.

19. (Original) The treatment system defined in Claim 18, wherein said holding member comprises a diameter configured for secure, surrounding engagement with a particular part of the human anatomy.

20. (Original) The treatment system defined in Claim 19, wherein the holding member is constructed for mounting securement to one body part selected from the group consisting of fingers, arms, elbows, toes, feet, legs, wrists, ankles, and the upper torso.

21. (Original) The treatment system defined in Claim 18, wherein said hollow cylindrical shape comprises one selected from the group consisting of regular cylinders and truncated cones.

22. (Original) The treatment system defined in Claim 21, and further comprising an elongated strap member for enabling tightening of the holding member in the desired location.

23. (Original) The treatment system defined in Claim 1, wherein said holding and supporting member comprises an elongated, substantially planar construction incorporating fastening means for securing said member in any desired location.

24. (Original) The treatment system defined in Claim 23, wherein said fastening means is defined as comprising one selected from the group consisting of adhesives and hook and loop fasteners.

25. (Original) The treatment system defined in Claim 1, wherein said holding and supporting member is further defined as being formed from thermoplastic elastomeric materials.

26. (Original) The treatment system defined in Claim 25, wherein said thermoplastic elastomeric material is defined as comprising one selected from the group consisting of polyurethanes, polyolefins, polybutylenes, polyethylenes, polyesters, ethylene-propylene rubbers, polypropylenes, silicones, and vinyl-based resins.

27. (Original) The treatment system defined in Claim 18, wherein said holding and supporting member is further defined as being formed from foamed thermoplastic elastomeric materials.

28. (Currently amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on a human body, said treatment system comprising:

- A. a holding and supporting member
  - a. comprising a hollow, continuous, generally cylindrically shaped member,
  - b. constructed for being securely retained on a desired site ~~of the human body~~ in peripheral, surrounding relationship thereto, and
  - c. being formed from foamed thermoplastic material configured to provide controlled heat retention and airflow transmission, said foamed thermoplastic elastomeric material is defined as

comprising at least one selected from the group consisting of foamed polyurethanes, polyolefins, polybutylenes, polyethylenes, polyesters, ethylene-propylene rubbers, polypropylenes, silicones, and vinyl-based resins;

- B. a heat delivery patch or exothermic pad positioned on the desired site of ~~the human body~~ in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and
- C. at least one medication applied to the desired site ~~on the human body~~, said medication being selected from the group consisting of systemic medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto and further defined as comprising one selected from the group consisting of corticosteroids, chemotherapeutic agents, antihistamines, anti-parasitics, anti-oxidants, immunomodulators, and anti-neoplastics;

whereby a treatment system is realized which is capable of being secured to any desired site of the human body to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

29. (Currently amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on a human body, said treatment system comprising:

- A. a holding and supporting member
  - a. comprising a hollow, continuous, generally cylindrically shaped member,
  - b. constructed for being securely retained on a desired site ~~of the human body~~ in peripheral, surrounding relationship thereto, and
  - c. being formed from foamed thermoplastic material configured to provide controlled heat retention and airflow transmission, said foamed thermoplastic elastomeric material is defined as comprising at least one selected from the group consisting of foamed polyurethanes, polyolefins, polybutylenes, polyethylenes, polyesters, ethylene-propylene rubbers, polypropylenes, silicones, and vinyl-based resins;
- B. a heat delivery patch or exothermic pad positioned on the desired site ~~of the human body~~ in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and



- C. at least one chemotherapeutic agent applied to the desired site ~~on the human body~~, said chemotherapeutic agent being selected from the group of medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto

whereby a treatment system is realized which is capable of being secured to any desired site of the human body to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

30. (Original) The treatment system defined in Claim 29, wherein the chemotherapeutic agents comprises one or more selected from the group consisting of 5FU, Bleomycin, acytotoxic agents.

31. (Currently amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on a human body, said treatment system comprising:

- A. a holding and supporting member
- a. comprising a hollow, continuous, generally cylindrically shaped member,
  - b. constructed for being securely retained on a desired site ~~of the human body~~ in peripheral, surrounding relationship thereto, and

- c. being formed from foamed thermoplastic material configured to provide controlled heat retention and airflow transmission, said foamed thermoplastic elastomeric material is defined as comprising at least one selected from the group consisting of foamed polyurethanes, polyolefins, polybutylenes, polyethylenes, polyesters, ethylene-propylene rubbers, polypropylenes, silicones, and vinyl-based resins;
- B. a heat delivery patch or exothermic pad positioned on the desired site of ~~the human body~~ in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and
- C. at least one corticosteroid applied to the desired site ~~on the human body~~, said corticosteroid being selected from the group of medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto

whereby a treatment system is realized which is capable of being secured to any desired site of the human body to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

32. (Original) The treatment system defined in Claim 31, wherein said corticosteroids are further defined as comprising at least one selected from the group consisting of hydrocortisone, triamcinolone, betamethasone, and any other steroids commonly used in topical applications to the skin.

33. (Currently amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on a human body, said treatment system comprising:

- A. a holding and supporting member
  - a. comprising a hollow, continuous, generally cylindrically shaped member,
  - b. constructed for being securely retained on a desired site ~~of the human body~~ in peripheral, surrounding relationship thereto, and
  - c. being formed from foamed thermoplastic material configured to provide controlled heat retention and airflow transmission, said foamed thermoplastic elastomeric material is defined as comprising at least one selected from the group consisting of foamed polyurethanes, polyolefins, polybutylenes, polyethylenes, polyesters, ethylene-propylene rubbers, polypropylenes, silicones, and vinyl-based resins;

- B. a heat delivery patch or exothermic pad positioned on the desired site of the human body in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and
- C. at least one anti-neoplastic applied to the desired site on the human body, said anti-neoplastic being selected from the group of medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto

whereby a treatment system is realized which is capable of being secured to any desired site of the human body to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

34. (Original) The treatment system defined in Claim 33, wherein the anti-neoplastics comprises one or more selected from the group consisting of cytotoxic agents and immunomodulators.

35. (Currently Amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on a human body, said treatment system comprising:

- A. a holding and supporting member

- a. comprising a hollow, continuous, generally cylindrically shaped member,
  - b. constructed for being securely retained on a desired site ~~of the human body~~ in peripheral, surrounding relationship thereto, and
  - c. being formed from foamed thermoplastic material configured to provide controlled heat retention and airflow transmission, said foamed thermoplastic elastomeric material is defined as comprising at least one selected from the group consisting of foamed polyurethanes, polyolefins, polybutylenes, polyethylenes, polyesters, ethylene-propylene rubbers, polypropylenes, silicones, and vinyl-based resins;
- B. a heat delivery patch or exothermic pad positioned on the desired site ~~of the human body~~ in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and
- C. at least one immunomodulator applied to the desired site ~~on the human body~~, said immunomodulator being selected from the group of medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto

whereby a treatment system is realized which is capable of being secured to any desired site of the human body to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

36. (Original) The treatment system defined in Claim 35, wherein the immunomodulators comprises one or more selected from the group consisting of imiquimod and beta glucan.

37. (Currently amended) A treatment system for providing enhanced delivery of systemic medications to a desired site on a human body, said treatment system comprising:

- A. a holding and supporting member
  - a. comprising a hollow, continuous, generally cylindrically shaped member,
  - b. constructed for being securely retained on a desired site of the human body in peripheral, surrounding relationship thereto, and
  - c. being formed from foamed thermoplastic material configured to provide controlled heat retention and airflow transmission, said foamed thermoplastic elastomeric material is defined as comprising at least one selected from the group consisting of

foamed polyurethanes, polyolefins, polybutylenes,  
polyethylenes, polyesters, ethylene-propylene rubbers,  
polypropylenes, silicones, and vinyl-based resins;

- B. a heat delivery patch or exothermic pad positioned on the desired site of ~~the human body~~ in cooperating relationship with the holding and supporting member for enabling the application of heat directly to the desired site; and
- C. at least one anti-oxidant applied to the desired site ~~on the human body~~, said anti-oxidant being selected from the group of medications which exhibit improved or enhanced penetration from the application of a heat gradient thereto

whereby a treatment system is realized which is capable of being secured to any desired site of the human body to provide therapeutic heat and improved medication delivery to the desired site in a precisely controlled manner.

38. (Original) The treatment system defined in Claim 37, wherein the antioxidants comprises one or more selected from the group consisting of ascorbic acid and tocopherol.